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INTRODUCTION

The R&D library maintains a comprehensive file of all scientific and technical papers published by employees while at the Philip Morris Research Center. This collection dates back to 1954. Copies of the papers, as well as bibliographies or compilations by authors, are available on request.

This annual report is a cumulation of all papers published from R&D since 1954. The references are arranged chronologically. Parentheses have been used to denote authors outside of Philip Morris who have collaborated with R&D employees on various studies.

Following the compilation of references you will find indexes arranged by author, title word, and journal name. The numbers in these indexes refer to the numbers of the published papers in the preceding section.

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PUBLISHED PAPERS BY PHILIP MORRIS RESEARCH CENTER PERSONNEL

1954

1. SIMPLE DEVICE FOR UNATTENDED MAINTENANCE OF DRY ICE TEMPERATURE
OKEEFFE AE , HOLMES JC , MORRELL FA
REVIEW OF SCIENTIFIC INSTRUMENTS. 25: 1225; 1954.

2. PAPER CHROMATOGRAPHY OF ALDEHYDES AND KETONES AS GIRARD DERIVATIVES
SELIGMAN RB, EDMONDS MD, OKEEFFE AE, LEE LA
CHEMISTRY AND INDUSTRY. (39): 1195; 1954.

1955

3. THE PREPARATION OF 3-FLUOROISONICOTINIC ACID AND RELATED COMPOUNDS
(ROE A), SELIGMAN RB
JOURNAL OF ORGANIC CHEMISTRY. 20: 1729-1732; 1955.

4. CHROMATOGRAPHY OF ORGANIC ACIDS IN CURED TOBACCO
RESNIK FE, LEE LA, (POWELL WA)
ANALYTICAL CHEMISTRY. 27: 928-931; 1955.

5. THE SEPARATION OF 2,4-DINITROPHENYLHYDRAZONES BY PAPER CHROMATOGRAPHY
SELIGMAN RB, EDMONDS MD
CHEMISTRY AND INDUSTRY. (44): 6406-6407; 1955.

6. DETERMINATION OF FORMIC ACID IN THE PRESENCE OF ACETIC ACID
WARNER BR, RAPTIS LZ
ANALYTICAL CHEMISTRY. 27: 1783-1784; 1955.

1956

7. SPECTROPHOTOMETRIC STUDIES OF SOME 2,4-DINITROPHENYLHYDRAZONES
JONES LA, HOLMES JC, SELIGMAN RB
ANALYTICAL CHEMISTRY. 28: 191-198; 1956.

1957

8. OSCILLOGRAPHIC MASS-SPECTROMETRIC MONITORING OF GAS CHROMATOGRAPHY
HOLMES JC, MORRELL FA
APPLIED SPECTROSCOPY. 11: 86-87; 1957.

9. INFRARED MICROTECHNIQUES FOR IDENTIFICATION OF CARBOHYDRATE AND OTHER
ORGANIC COMPOUNDS
RESNIK FE, HARROW LS, HOLMES JC, BILL ME, GREENE FL
ANALYTICAL CHEMISTRY. 29: 1874-1877; 1957.

10. CHROMATOGRAPHY OF ORGANIC ACIDS IN CURED TOBACCO
RESNIK FE, LEE LA, (POWELL WA)
TOBACCO SCIENCE. 1: 23-27; 1957.

11. GAS CHROMATOGRAPHY IN TOBACCO RESEARCH
SELIGMAN RB, RESNIK FE, OKEEFFE AE, HOLMES JC, MORRELL FA, MURRILL DP, GAGER
FL
TOBACCO SCIENCE. 1: 124-129; 1957.

12. WHOLE TREE HARVESTING
SPROULL RC, (PARKER RB), (BELVIN WL)
FOREST PRODUCTS JOURNAL. 7: 131-134; 1957.

1958

13. UREA PHOSPHATE REAGENT AS A SPECIFIC TEST FOR HEPTOSES ON PAPER
CHROMATOGRAPHY
GREENE FL
ANALYTICAL CHEMISTRY. 30: 1164; 1958.

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14. AN IMPROVED SMOKING MACHINE
OKEEFFE AE, LIESER RC
TOBACCO SCIENCE. 2: 73-76; 1958.

1959

15. REPORT ON THE DETERMINATION OF TOTAL ALKALOIDS, NICOTINE AND NORNICOTINE IN TOBACCO
(OGG CL), (BATES WW), (COGBILL EC), HARROW LS, (PETERSON EL)
JOURNAL OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. 42: 305-310; 1959.

16. REPORT ON THE DETERMINATION OF TOTAL ALKALOIDS, NICOTINE AND NORNICOTINE IN TOBACCO
(OGG CL), (BATES WW), (COGBILL EC), HARROW LS, (PETERSON EL)
TOBACCO SCIENCE. 3: 98-102; 1959.

17. REPORT ON THE DETERMINATION OF TOTAL NITROGEN IN TOBACCO
(OGG CL), (BATES WW), (COGBILL EC), HARROW LS, (PETERSON EL)
JOURNAL OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. 42: 302-305; 1959.

18. REPORT ON THE DETERMINATION OF TOTAL NITROGEN IN TOBACCO
(OGG CL), (BATES WW), (COGBILL EC), HARROW LS, (PETERSON EL)
TOBACCO SCIENCE. 3: 94-97; 1959.

19. INFRARED ANALYSIS OF TRIETHYLENE GLYCOL IN THE PARTICULATE PHASE OF CIGARETTE SMOKE
BILL ME, VILCINS G, RESNIK FE
TOBACCO SCIENCE. 3: 118-120; 1959.

20. THE DETERMINATION OF PARTICLE SIZE AND ELECTRIC CHARGE DISTRIBUTION IN CIGARETTE SMOKE
HOLMES JC, HARDCASTLE JE, (MITCHELL RI)
TOBACCO SCIENCE. 3: 148-153; 1959.

21. A RAPID SPECTROPHOTOMETRIC DETERMINATION OF TOTAL NICOTINE ALKALOIDS IN TOBACCO SMOKE
PLEASANTS SW, HAYNES CM, HARROW LS
JOURNAL OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. 42: 424-427; 1959.

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22. DETERMINATION OF SECONDARY, TERTIARY AND TOTAL ALKALOIDS IN TOBACCO
(OGG CL), (BATES WW), (COGBILL EC), HARROW LS, (PETERSON EL)
JOURNAL OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. 43: 524-529; 1960.

23. TRIACETIN CONTENT OF CIGARETTE FILTERS
BILL ME, VILCINS G, RESNIK FE
TOBACCO SCIENCE. 4: 26-28; 1960.

24. ANCIENT TOBACCO SMOKERS
GAGER FL, JOHNSON VC, HOLMES JC
SCIENCE. 132: 1021; 1960.

25. MOISTURE IN THE TOTAL PARTICULATE MATTER AND GAS PHASE OF CIGARETTE SMOKE
HOLMES JC, CRIDLIN WB
JOURNAL OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. 43: 515-518; 1960.

26. INFRARED MICROTECHNIQUES
RESNIK FE
ENCYCLOPEDIA OF SPECTROSCOPY. EDITED BY GL BLARK. NEW YORK: REINHOLD; 1960: 483-487.

27. RECENT ADVANCES IN GAS CHROMATOGRAPHY DETECTORS
SELIGMAN RB, GAGER FL
ADVANCES IN ANALYTICAL CHEMISTRY AND INSTRUMENTATION. 1: 119-150; 1960.

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28. QUALITATIVE AND QUANTITATIVE ANALYSIS OF ORGANIC COMPOUNDS; USE OF LOW-VOLTAGE MASS SPECTROMETRY
VARSEL CJ, MORRELL FA, RESNIK FE, (POWELL WA)
ANALYTICAL CHEMISTRY. 32: 182-186; 1960.

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WALFORD BP, MACE CV
SPECIAL LIBRARIES. 51: 200-204; 1960.

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30. SPECTROPHOTOMETRIC STUDIES OF THE 2,4-DINITROPHENYLHYDRAZONES OF N-ALKA-2-ENALS AND N-ALKA-2,4-DIENALS
(STITT F), SELIGMAN RB, RESNIK FE, (GONG E), (PIPPEN EL), (FORSS DA)
SPECTROCHIMICA ACTA. 17: 51-63; 1961.

31. THE DETERMINATION OF MOISTURE IN TOTAL PARTICULATE MATTER OF CIGARETTE SMOKE BY NEAR INFRARED SPECTROPHOTOMETRY
CROWELL EP, KUHN WF, RESNIK FE, VARSEL CJ
TOBACCO SCIENCE. 5: 547; 1961.

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JONES LA, (HANCOCK CK), SELIGMAN RB
JOURNAL OF ORGANIC CHEMISTRY. 26: 228-232; 1961.

33. A METHOD FOR THE QUANTITATIVE SERIAL EXTRACTION OF TOBACCO
MORRIS RM, WICKHAM JE, HOLMES JC
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34. A RAPID DETERMINATION OF TRUE TOBACCO DENSITY
WESTBROOK J, PLEASANTS SW, HARROW LS
JOURNAL OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. 44: 352-356; 1961.

35. DETERMINATION OF PETROLEUM ETHER EXTRACTS IN TOBACCO
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36. DETERMINATION OF TOTAL PARTICULATE MATTER, NICOTINE AND WATER IN CIGARETTE SMOKE
(OGG CL), (BATES WW), (COGBILL EC), BLACKMORE RH, (PETERSON EL)
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37. THE FATE OF CARBOHYDRATES DURING THE THERMAL DEGRADATION OF TOBACCO
BURDE R, CRAYTON FH, BAVLEY A
NATURE. 196: 166-167; 1962.

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GROSSMAN JD, DESZYCK EJ, IKEDA RM, BAVLEY A
CHEMISTRY AND INDUSTRY. (45): 1950-1951; 1962.

39. A RAAB EXTRACTOR FOR REDUCED PRESSURE OPERATION
GUVERNATOR GC
CHEMIST ANALYST. 52: 52; 1962.

40. THE DETERMINATION OF MOISTURE IN THE TOTAL PARTICULATE MATTER OF CIGARETTE SMOKE
JARRELL JE, WICKHAM JE
TOBACCO SCIENCE. 6: 152-155; 1962.

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POINDEXTER EH, CARPENTER RD
CHEMISTRY AND INDUSTRY. (4): 186; 1962.

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PHYTOCHEMISTRY. 1: 215-221; 1962.

44. AUTOMATED COLORIMETRIC ANALYSIS OF REDUCING SUBSTANCES IN CIGARETTE SMOKE
WICKHAM JE, WESTBROOK J, HOLMES JC
TOBACCO SCIENCE. 6: 50-52; 1962.

45. AN AUTOMATION DEVICE FOR DETERMINING THE STATIC BURNING RATE OF CIGARETTES
WILEY RM, HOLMES JC
TOBACCO SCIENCE. 6: 144-145; 1962.

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46. COLUMN CHROMATOGRAPHIC METHOD FOR SEPARATION OF CARBOHYDRATE DEGRADATION PRODUCTS
BURDE R, JARRELL JE, BAVLEY A
ANALYTICAL CHEMISTRY. 35: 1535-1536; 1963.

47. OXIDATIVE PRODUCTS OF HEXOSES IN THERMALLY TREATED TOBACCO
BURDE R, POINDEXTER EH
NATURE. 198: 1089-1090; 1963.

48. CHARACTERIZATION AND DETERMINATION OF ALDEHYDES BY THE ULTRAVIOLET SPECTRAL CHANGES FROM ACETAL FORMATION
CROWELL EP, (POWELL WA), VARSEL CJ
ANALYTICAL CHEMISTRY. 35: 184-189; 1963.

49. SPECTROPHOTOFLUOROMETRIC STUDIES OF SOME AROMATIC ALDEHYDES AND THEIR ACETALS
CROWELL EP, VARSEL CJ
ANALYTICAL CHEMISTRY. 35: 189-192; 1963.

50. MECHANISM OF SOLANESOL BREAKDOWN DURING PYROLYSIS
GROSSMAN JD, IKEDA RM, DESZYCK EJ, BAVLEY A
NATURE. 199: 661-663; 1963.

51. IDENTIFICATION OF FURFURYL ALCOHOL IN CIGARETTE SMOKE
GUVERNATOR GC
TOBACCO SCIENCE. 7: 63; 1963.

52. RAPID SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF CHLOROGENIC ACID IN LEAF TOBACCO
OAKLEY ET, MILLHAM JO
JOURNAL OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. 46: 785-790; 1963.

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POINDEXTER EH, BAVLEY A, WAKEHAM H
WORLD TOBACCO SCIENTIFIC CONGRESS. 3RD. SALISBURY, SOUTHERN RHODESIA; 1963: 550-556.

54. FLAVOUR EVALUATION OF CIGARETTE SMOKE COMPONENTS
RESNIK FE, DANKER WH, DAYLOR FL
WORLD TOBACCO SCIENTIFIC CONGRESS. 3RD. SALISBURY, SOUTHERN RHODESIA; 1963: 522-533.

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ROBB EW, WESTBROOK J
ANALYTICAL CHEMISTRY. 38: 1644-1647; 1963.

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ROBB EW, WESTBROOK J, BAVLEY A
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BURDE R, CRAYTON FH, BAVLEY A
TOBACCO SCIENCE. 8: 70–73; 1964.

59. REMOVAL OF ALCOHOLS FROM COMPLEX MIXTURES DURING GAS CHROMATOGRAPHY
IKEDA RM, SIMMONS DE, GROSSMAN JD
ANALYTICAL CHEMISTRY. 36: 2188–2189; 1964.

60. AUTOMATED LIQUID SAMPLE INJECTOR FOR GAS CHROMATOGRAPHY
JARRELL JE, ALLISON AW
JOURNAL OF GAS CHROMATOGRAPHY. 2: 192–193; 1964.

61. AN EMPIRICAL CORRELATION OF TWO METHODS FOR PHENOLS IN CIGARETTE SMOKE
OAKLEY ET, MILLHAM JO, WEISSBECKER L
ANALYTICA CHIMICA ACTA. 31: 272–278; 1964.

62. INFRARED METHOD FOR EVALUATION OF CIGARETTE FILTER EFFICIENCY
VILCINS G, VARSEL CJ, RESNIK FE
TOBACCO SCIENCE. 8: 49–52; 1964.

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63. THE DISTRIBUTION OF AMINO ACIDS IN TOBACCOS FROM DIFFERENT STALK REGIONS
BURDE R, POINDEXTER EH, BELL JP
TOBACCO SCIENCE. 9: 26–32; 1965.

64. HOW SCIENTIFIC TASTE TESTING HELPS CIGARETTE DEVELOPMENT
DUNN WL
WORLD TOBACCO. (10): 93–99; 1965.

65. APPLICATION OF DIFFERENTIAL THERMAL ANALYSIS AND THERMOGRAVIMETRIC ANALYSIS OF TOBACCO
EDMONDS MD, CORE MT, BAVLEY A
TOBACCO SCIENCE. 9: 48–53; 1965.

66. ELECTRON CAPTURE DETECTION OF GAS-CHROMATOGRAPHIC POLYCYCLIC HYDROCARBONS
GUVERNATOR GC, GAGER FL, ROBB EW, BAVLEY A
JOURNAL OF GAS CHROMATOGRAPHY. 3: 363–367; 1965.

67. A STUDY OF THE MAJOR GASEOUS CONSTITUENTS IN THE MAINSTREAM SMOKE OF A CIGARETTE
JARRELL JE, BURDE R
TOBACCO SCIENCE. 9: 5–11; 1965.

68. DIRECT POTENTIOMETRIC TITRATION OF POLYETHYLENE GLYCOLS AND THEIR DERIVATIVES WITH SODIUM TETRAPHENYLBORON
LEVINS RJ, IKEDA RM
ANALYTICAL CHEMISTRY. 37: 671–675; 1965.

69. GAS CHROMATOGRAPHIC DETERMINATION OF FREE FORMIC AND ACETIC ACIDS IN CIGARETTE SMOKE
OAKLEY ET, WEISSBECKER L, RESNIK FE
ANALYTICAL CHEMISTRY. 37: 380–382; 1965.

70. ANALYSIS OF POLYCYCLIC HYDROCARBONS
ROBB EW, GUVERNATOR GC, EDMONDS MD, BAVLEY A
BEITRAGE ZUR TABAKFORSCHUNG. 3: 279–285; 1965.

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71. MUCUS TRANSPORT ON THE RESPIRATORY TRACT
(CARSON S), (GOLDHAMER R), CARPENTER RD
AMERICAN REVIEW OF RESPIRATORY DISEASES. 93: 86–92; 1966.

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GERBER RP
VIRGINIA JOURNAL OF SCIENCE. 17: 40-45; 1966.

73. A TOTAL COMBUSTION PRODUCT CIGARETTE SMOKING MACHINE - ANALYSIS OF RADIO-ACTIVE CIGARETTE PAPER
MORRELL FA, VARSEL CJ
TOBACCO SCIENCE. 9: 45-50; 1966.

74. MODEL PYROLYSIS - THE STUDY OF CELLULOSE
ROBB EW, JOHNSON WR, WESTBROOK J, SELIGMAN RB
INTERNATIONAL TOBACCO SCIENTIFIC CONGRESS. 4TH. ATHENS, GREECE; 1966: 1075-1085.

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ROBB EW, JOHNSON WR, WESTBROOK J, SELIGMAN RB
BEITRAGE ZUR TABAKFORSCHUNG. 3: 597-604; 1966.

76. THE ACTION OF COMMERCIAL CELLULASE PREPARATIONS OF ALKALOIDS IN TOBACCO
SILBERMAN HC
TOBACCO SCIENCE. 9: 116-118; 1966.

77. PLASTIC CONICAL COLUMNS FOR CHROMATOGRAPHY
STAHR HM, IKEDA RM, OAKLEY ET, CARTER BM
ANALYTICAL CHEMISTRY. 38: 1974; 1966.

78. EFFECT OF CELLULOSE ON TASTE OF CIGARETTE SMOKE
WAKEHAM H, SILBERMAN HC
INTERNATIONAL TOBACCO SCIENTIFIC CONGRESS. 4TH. ATHENS, GREECE; 1966: 1086-1092.

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WAKEHAM H, SILBERMAN HC
BEITRAGE ZUR TABAKFORSCHUNG. 3: 605-610; 1966.

80. AN AUTOMATED GLC APPARATUS FOR THE EVALUATION OF THE GAS PHASE OF CIGARETTE SMOKE
WATSON DC, IKEDA RM, RESNIK FE
TOBACCO SCIENCE. 9: 88-94; 1966.

81. SPECTROPHOTOMETRIC DETERMINATION OF HEXACHLOROPHENE AND ZINC PHENOLSULFONATE IN AEROSOL DEODORANTS
WILL F, VARSEL CJ
JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS. 49: 949-954; 1966.

1967

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(BATES WW), (GRIFFITH RB), (HARLOW ES), (SENKUS M), WAKEHAM H
VIRGINIA JOURNAL OF SCIENCE. 18: 130-135; 1967.

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HARVEY WR, BADGETT CE, RESNIK FE
TOBACCO SCIENCE. 11: 84-86; 1967.

84. THE EFFECT OF THE TUBING MATERIAL IN THE GAS CHROMATOGRAPHY OF POLYOLS AND VANILLINS
LEVINS RJ, (OTTENSTEIN DM)
JOURNAL OF GAS CHROMATOGRAPHY. 5: 539-542; 1967.

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LABORATORY MANAGEMENT. 5: 18-21; 1967.

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WILEY RM, FERRI JA
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(HAINER RM), WAKEHAM H
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BAILEY WC, (BOSE AK), IKEDA RM, NEWMAN RH, SECOR HV, VARSEL CJ
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BAXT LM, (PERLMAN MM), (TILLEY DE)
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BURDE R, NORMAN SF
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JONES RM, KUHN WF, VARSEL CJ
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95. ELECTRON AFFINITIES AND IONIZATION POTENTIALS OF PHTHALATE COMPOUNDS
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96. THE SEPARATION OF VOLATILES FROM SOLIDS IN THE INJECTION PORT OF A GAS CHROMATOGRAPH
LEVINS RJ, IKEDA RM
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97. SPACE-CHARGE CONDUCTION IN INSULATORS
LILLY AC, LOWITZ DA, (SCHUG JC)
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